

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000378

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H03C 1/14, H01P 1/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H03C, H01P, H03F, H04L, H03H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN Vol. 018, No. 549 (E-1618) 19 October 1994 (1994-10-19) abstract & JP 06 197137 A (NEC CORP) 15 July 1994 (1994-07-15) figures 4 and 5; sections 0004-0007 from the automatic translation --	1-14
A	US 5355103 A (KOZAK, J.P.), 11 October 1994 (11.10.1994), figure 1, abstract --	1-14
A	US 6016304 A (KYLE, R.R. ET AL), 18 January 2000 (18.01.2000), figure 1, abstract -- -----	1-14

☐ Further documents are listed in the continuation of Box C.
 ☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 21 October 2004	Date of mailing of the international search report 22-10-2004
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Authorized officer Markus Stålö /OGU Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

Information on patent family members

03/09/2004

International application No.

PCT/FI 2004/000378

US	5355103	A	11/10/1994	CA	2045330	A,C	10/12/1995
				GB	2274950	A,B	10/08/1994
				GB	9113967	D	00/00/0000
<hr/>							
US	6016304	A	18/01/2000	DE	69727864	D	00/00/0000
				EP	0823747	A,B	11/02/1998
				JP	10135710	A	22/05/1998
				TW	425777	B	00/00/0000
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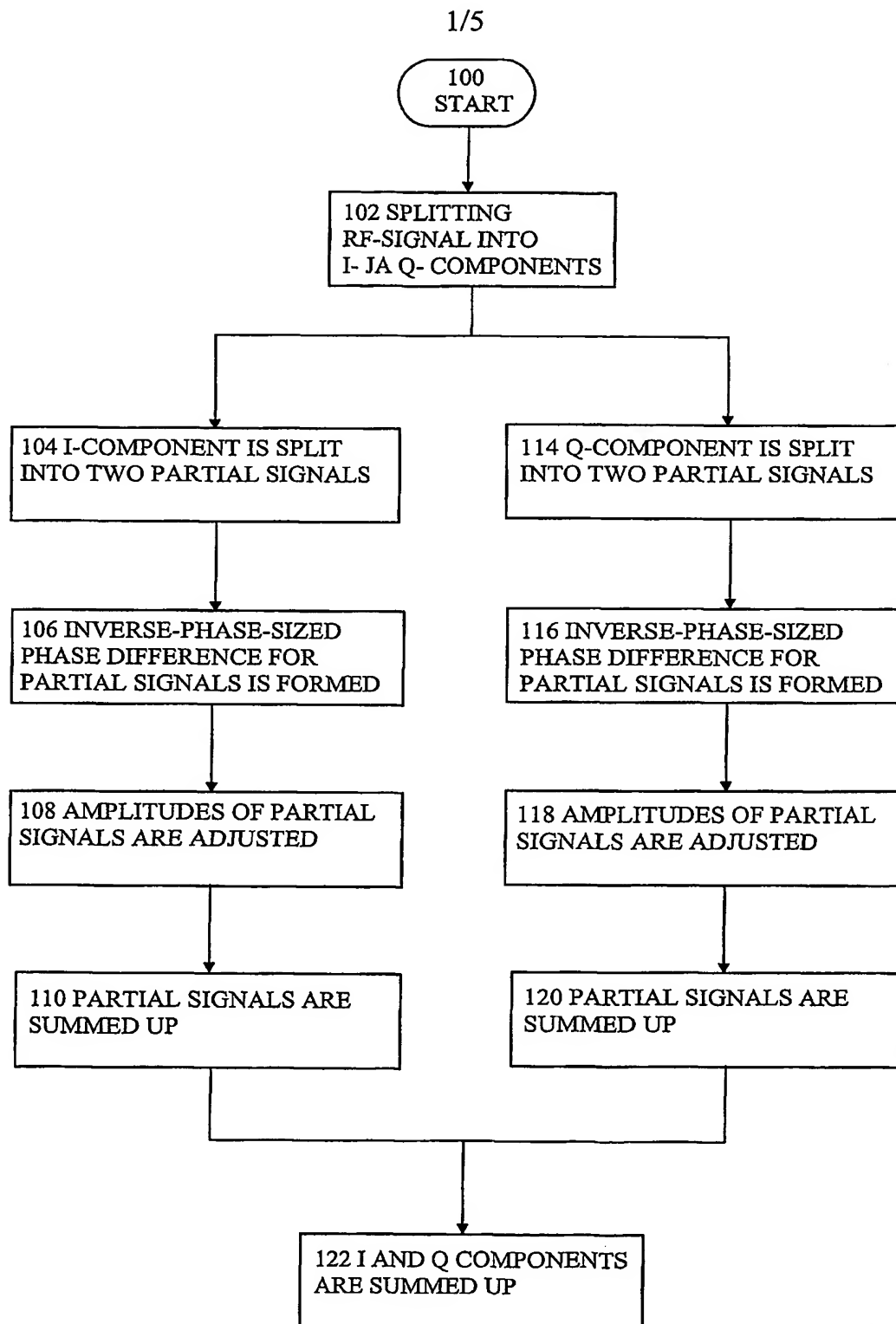


FIG. 1

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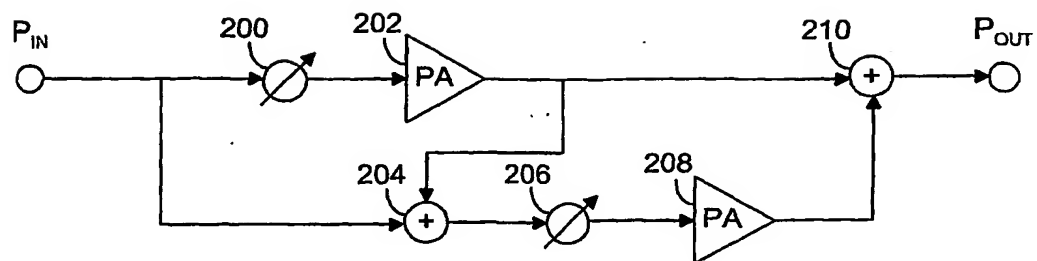


FIG. 2

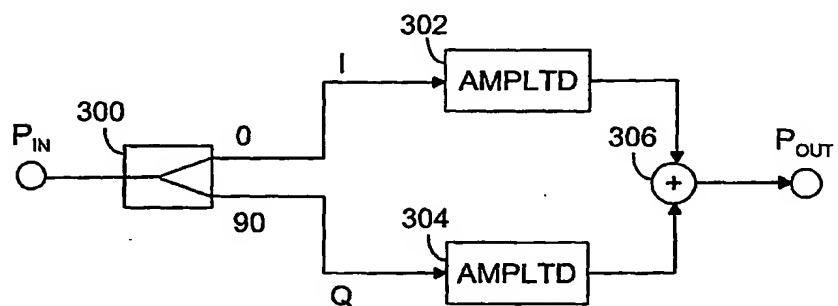


FIG. 3

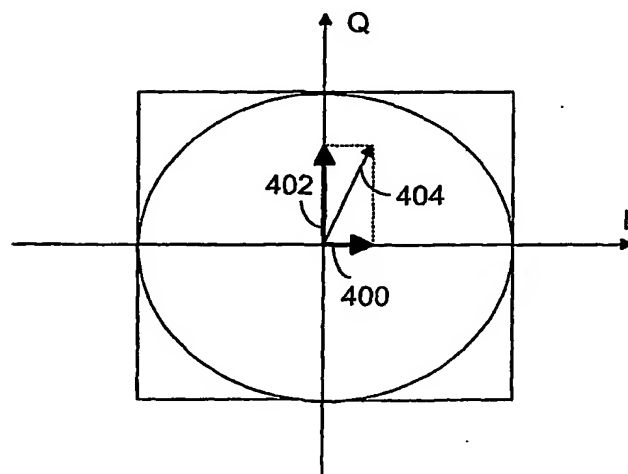


FIG. 4A

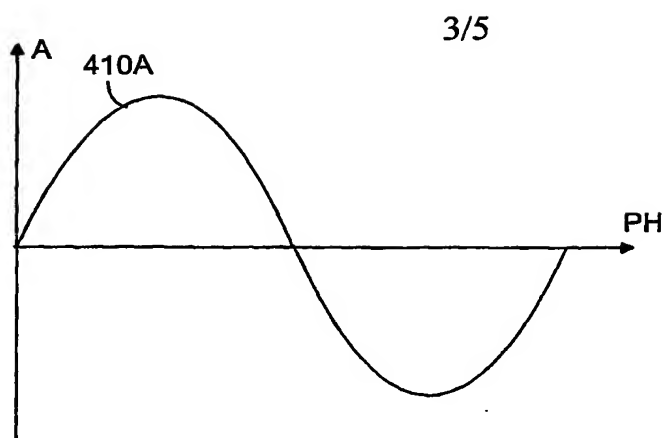


FIG. 4B

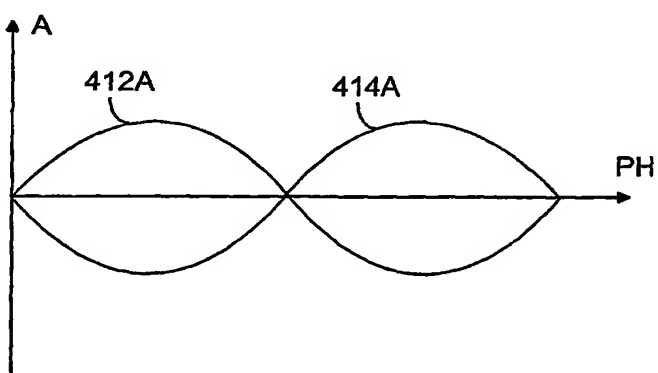


FIG. 4C

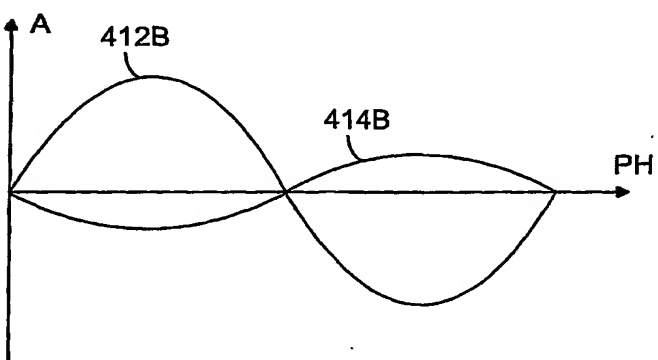


FIG. 4D

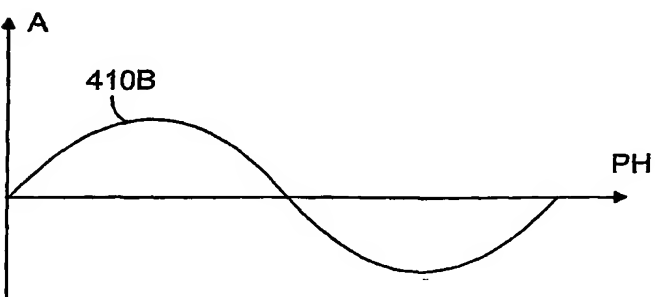


FIG. 4E

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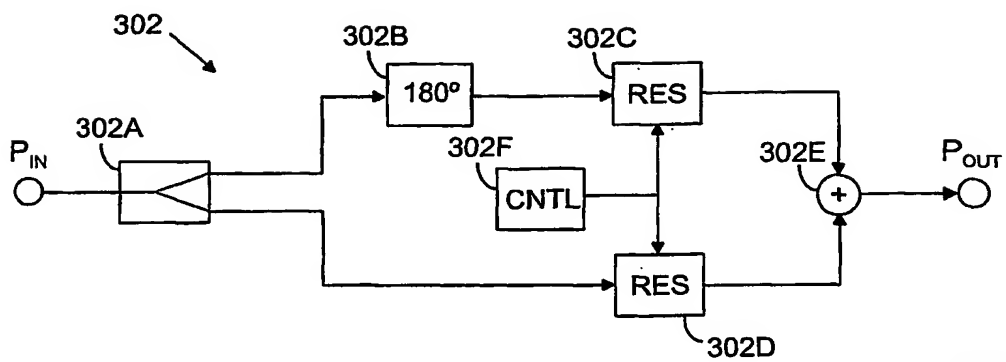


FIG. 5

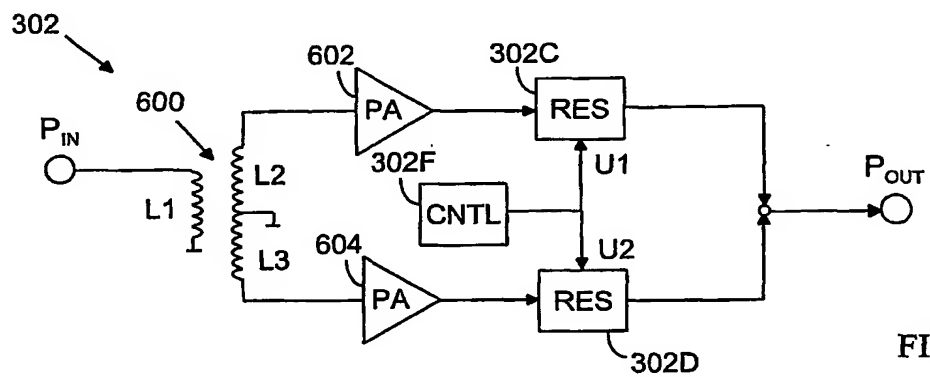


FIG. 6

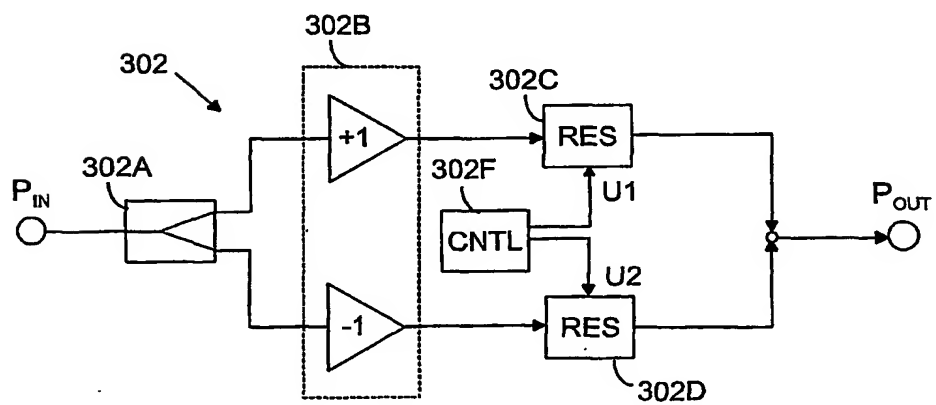


FIG. 7

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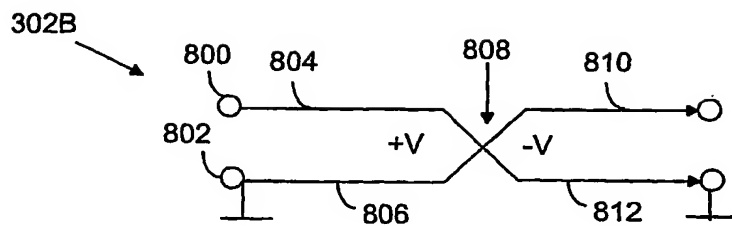


FIG. 8

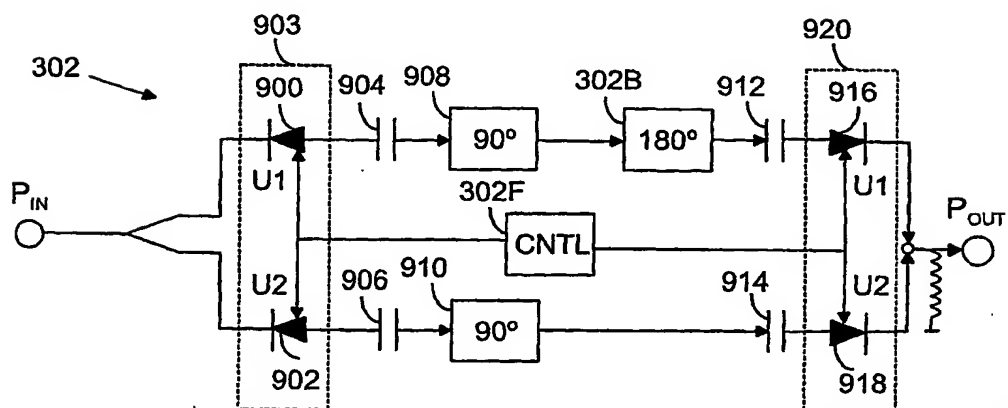


FIG. 9